

REMARKS

If there are any additional charges, please charge Deposit Account No. 02-2666. If a telephone interview would in any way expedite the prosecution of the present application, the Examiner is invited to contact Maria McCormack Sobrino at (408) 720-8300.

Respectfully submitted,

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VERSION OF SPECIFICATION AND CLAIMS WITH MARKINGS:

IN THE TITLE

The title of the present application has been amended from "A METHOD AND APPARATUS FOR COMPUTING A SUM OF PACKED DATA ELEMENTS USING SIMD MULTIPLY CIRCUITRY" to --A METHOD AND APPARATUS FOR COMPUTING A PACKED SUM OF ABSOLUTE DIFFERENCES--

IN THE SPECIFICATION

On page 1, at line 4, please insert:

--CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation of application Ser. No. 09/052,904, filed March 31, 1998, currently pending.--

On page 1, at line 5, please delete "1."

On page 1, at line 10, please delete "2."

On page 4, please delete lines 1-10.

On page 20, please delete Table 1 as follows:

	Receives		Generates	
PSUBWC/PABSR C arithmetic element	Packed Data elements	$C_{input,i}$	$C_{output,i}$	Packed Data element
1000	$D_0$ and $E_0$	$C_{input,0}$	$C_{output,0}$	$F_0$
1010	$D_1$ and $E_1$	$C_{input,1}$	$C_{output,1}$	$F_1$
1020	$D_2$ and $E_2$	$C_{input,2}$	$C_{output,2}$	$F_2$
1030	$D_3$ and $E_3$	$C_{input,3}$	$C_{output,3}$	$F_3$
1040	$D_4$ and $E_4$	$C_{input,4}$	$C_{output,4}$	$F_4$
1050	$D_5$ and $E_5$	$C_{input,5}$	$C_{output,5}$	$F_5$
1060	$D_6$ and $E_6$	$C_{input,6}$	$C_{output,6}$	$F_6$
1070	$D_7$ and $E_7$	$C_{input,7}$	$C_{output,7}$	$F_7$

Table 1

and replace with the following Table 1:

	Receives		Generates	
PSUBWC/PABSR C arithmetic element	Packed Data elements	$C_{input,i}$	$C_{output,i}$	Packed Data element
1000	$D_0$ and $E_0$	$C_{input,0}$	$C_{output,0}$	$F_0$
1010	$D_1$ and $E_1$	$C_{input,1}$	$C_{output,1}$	$F_1$
1020	$D_2$ and $E_2$	$C_{input,2}$	$C_{output,2}$	$F_2$
1030	$D_3$ and $E_3$	$C_{input,3}$	$C_{output,3}$	$F_3$
1040	$D_4$ and $E_4$	$C_{input,4}$	$C_{output,4}$	$F_4$
1050	$D_5$ and $E_5$	$C_{input,5}$	$C_{output,5}$	$F_5$
1060	$D_6$ and $E_6$	$C_{input,6}$	$C_{output,6}$	$F_6$
1070	$D_7$ and $E_7$	$C_{input,7}$	$C_{output,7}$	$F_7$

Table 1

IN THE CLAIMS

Please delete claims 1-15.

IN THE ABSTRACT

Please substitute the Abstract on page 34, lines 2-10 with the following:

--ABSTRACT

A method and apparatus is disclosed that computes multiple absolute differences from packed data and sums each one of the multiple absolute differences together to produce a result. According to one embodiment, a processor includes a decode unit to decode a packed sum of absolute differences (PSAD) instruction having an opcode format to identify a set of packed data operands. The decode unit initiates a sequence of operations on the set of packed data operands in response to decoding the PSAD instruction. An execution unit performs a first operation of the sequence of operations initiated by the decode logic, and a bus provides the execution unit with the set of packed data operands as identified in accordance with the opcode format.--

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